

19990424.ba v02_n517.bam.990424 v02_n518.bam.990424

>From ???@??? Sat Apr 24 07:57:43 1999
Message-Id: <199904240952.EAA05932@sco.theporch.com>
Date: Sat, 24 Apr 1999 04:50:44 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2517

BOATANCHORS Digest 2517

Topics covered in this issue include:

- 1) MG Set Controllers
by Richard Pekelney <pekelney@rspeng.com>
- 2) RE: Vintage Mobile
by "Freeberg, Scott (STP)" <scott.freeberg@guidant.com>
- 3) Re: "Needs Alignment"
by "Arden Allen" <gumbear@pacbell.net>
- 4) Johnson Paint
by Dennis Gehrke <DLG1@micron.net>
- 5) WTB: TEK MANUAL
by Maurice Weinschenker <morry@ix.netcom.com>
- 6) X32D INFO SOUGHT
by BEN NOCK <G4BXD@compuserve.com>
- 7) WTD Drake DC supply for Vintage Mobile
by John_A_King@res.raytheon.com
- 8) Receiver alignment with sweep generators
by Scott Robinson <spr@earthlink.net>
- 9) Fw: "Needs Alignment"
by "Arden Allen" <gumbear@pacbell.net>
- 10) Tek 585A Problems
by don merz <71333.144@compuserve.com>
- 11) Re: Tek 585A Problems
by John Shriver <jas@shiva.com>
- 12) Re: Tek 585A Problems
by John Kolb <jlkolb@cts.com>
- 13) Re: WTD Drake DC supply for Vintage Mobile
by "Wayne & Deb Harrah" <harrah@ia.net>
- 14) manuel list at library
by "anthony w. deprato" <tdeprato@som-uky.campuscw.net>
- 15) Wanted: Schematic/manual for CE Model DQ Q-Mult.
by "ROBERT F. KEMP" <rkemp@mr.net>
- 16) need two small parts, anyone going to greenville?
by "Bob Duckworth" <wb4mnf@atl.org>
- 17) Microphone Impedance Transformer
by Robert Lawson <lawson_r@popmail.firn.edu>
- 18) SB-35, cont'd

- by "Robert Nickels" <ranickel@mwci.net>
19) RE: Needs alignment
by Glenn Finerman <k2kl@acd-pc.com>
20) Re: Tek 585A Problems
by Bill Hawkins <bill@iaxs.net>
21) Re: Tek 585A Problems
by Henry van Cleef <vancleef@netcom.com>
22) HV probe wtd.
by "Steve" <scb@loki.internettport.net>
23) Nat'l NC-44 novel circuit
by Hue Miller <kargokult@proaxis.com>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
Message-Id: <v04204c06b3464b832639@[207.181.238.197]>
Date: Fri, 23 Apr 1999 09:10:37 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Richard Pekelney <pekelney@rspeng.com>
Subject: MG Set Controllers

Folks,

Does anyone have a good collection of schematics for WW II era DC motor controllers? Westinghouse or Cutler-Hammer? Large and small horse power?

Thanks,

rich

--

Richard Pekelney
Internet: pekelney@rspeng.com
Phone: USA 1-415-563-5928
Fax: USA 1-415-563-5787

Message-ID: <21B46CBD022AD1118F0500805F15A068011068AD@stpmsx05.stp.guidant.com>
From: "Freeberg, Scott (STP)" <scott.freeberg@guidant.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Vintage Mobile
Date: Fri, 23 Apr 1999 12:11:13 -0500
MIME-Version: 1.0
Content-Type: text/plain

Back in 1968 (and 14 years old) I was at Geri' Hamburgers (Like McDonalds) in Rockford Ill. This big flashy new Caddy pulls in with a huge HF mobile whip on the bumper. I went over and introduced myself. The guy had a

Collins KWM2 mounted to the hump in front of the seat. He opens his trunk and in there was his KW mobile amplifier. Gads, did that ever impress a novice like me who was running a 35 watts out with a Knight T-60 and a National NC-183. 31 years later I finally got a KWM-2 and you know what, its just as cool as I remember.

73, Scott WA9WFA in Saint Paul Minn

Message-Id: <199904231716.KAA09006@mail-gw6.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: "Needs Alignment"
Date: Fri, 23 Apr 1999 10:20:01 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Well said, Kim!

>
> The point of all this is, many times it's beyond the sellers ability to
> align a piece of equipment right. Maybe he's tried and made it worse and
> doesn't want to admit it. I've bought Heath Transceivers that (SB/HW
> series) that are easy to work on but don't work because the fellow that
> sold it was using a 20K/volt VOM and got the HFO oscillator all out of
> wack. Put the TEK scope or the Fluke DMM on it, adjust the coils, and
> all
> of a sudden, it's receiving on all bands and even making RF output. All
> for a lousy meter.

It wasn't long after my failed attempt without help (it was a cold solder joint) to get my first kit (a Heath AR-3) playing that I realized how helpless I was without test equipment. My next purchase was a V-7A VTVM (I destroyed the circuit board and had to order another before I got it running) which was calibrated with a precision voltage source, a "fresh" C cell. The VTVM made a good S meter also. Thanks to BC stations and WWV I could get the alignment halfway decent but I knew I had to have a signal generator. I spent the big bucks and purchased a Precision E-75 (\$49.95). Hmmmmmm, how do I calibrate IT? Well of course, BC stations and WWV! Thank God for KFWB on 910 Kc I could zero-beat the second harmonic of 455 Kc and get the IF dead nuts. Didn't notice any improvement but it made me feel better. When I added the Q multiplier at least I knew everything was "right".

Unfortunately, there is a lot of misunderstanding about test equipment and I believe that has kept some folks from equipping themselves with the basic

essentials of a decent radio hobby shop. Let me suggest some rules to follow: A VTVM (or a modern high input impedance DVM) is a basic necessity, even a cheap one will do 90% of what a "lab" meter will do. A VTVM's DC voltage probe contains an isolation resistor at the tip to prevent capacitive loading and detuning of RF/IF circuits, DVM's don't come so equipped and you will have to construct a probe and account for the reading error introduced). A signal generator is a source of a clean carrier and tone modulation for alignment and testing, the first requirement (leave it on 24 hours a day while working on radios to minimize drift). A second requirement is a signal generator should have an attenuator that will allow sensitivity measurements but it is NOT MANDATORY for doing competent repair and alignment. Decoupling the generator from the receiver will provide weak signals although it's fussy. A frequency counter is not so scary as it sounds, a little study of digital logic and counting circuits will clear the haze about what they do. A freq. counter is indispensable for accurate alignments. As powerful and versatile as an oscilloscope is, you can get by without one. Of all the equipment that one can acquire, a cheap oscilloscope will provide the most frustration although the modern cheapies are better because they tend to imitate the features found in quality lab scopes. So scrounge up some test equipment (lots of useful stuff at the fleas), you can always upgrade later as you learn the ropes.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-ID: <3720AB44.B0CCAFF3@micron.net>
Date: Fri, 23 Apr 1999 11:17:56 -0600
From: Dennis Gehrke <DLG1@micron.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Johnson Paint
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Awhile back, I remember a company selling various paints for boatanchors, i.e. Johnson equipment. Can anyone advise as to who that might be?? Any help would be greatly appreciated.

73's
Dennis
KC7VXD
comtoys@micron.net

Message-ID: <3720ADDB.2ABB0E3F@ix.netcom.com>
Date: Fri, 23 Apr 1999 13:28:59 -0400
From: Maurice Weinschenker <morry@ix.netcom.com>

MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: WTB: TEK MANUAL
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

WTB OR BUY COPY OR JUST COPY OF SCHEMATICS FER A TEK 315D SCOPE.
TO NICE TO SCRAP BUT CAN'T DO ANYTHING WITHOUT SCHEMATIC.
MNY TNX IN ADVANCE.
BEST 73 MORRY K3DPJ

Date: Fri, 23 Apr 1999 13:45:30 -0400
From: BEN NOCK <G4BXD@compuserve.com>
Subject: X32D INFO SOUGHT
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199904231345_MC2-732F-1EA6@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

>I am looking for the following info:

>

>EMERs Tels F370/1 WS No32D Dec 1944

>SRDE 445, nov 1943

>SRDE 574B, May 1945

>SRDE 575A, June 1945

>

>If anyone can supply me with copies of these I would be most =

>obliged, and all costs covered of course. =

>

>cheers, Ben. G4BXD

From: John_A_King@res.raytheon.com
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <8525675C.006199ED.00@ressud-as01.res.ray.com>
Date: Fri, 23 Apr 1999 13:46:04 -0400
Subject: WTD Drake DC supply for Vintage Mobile
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

The Vintage Mobile thread started up just a few days after
I received a Drake TR-4C. My '90 Merc Marquis desperately

needs a large radio to fill the cavernous void when travelling solo.

Does anyone have a DC-4 power supply for sale?

73,

John King WA1ABI

Message-Id: <v03007803b3467ac73b8a@[209.179.144.153]>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Fri, 23 Apr 1999 11:40:19 -0800

To: Old Tube Radios <boatanchors@theporch.com>

From: Scott Robinson <spr@earthlink.net>

Subject: Receiver alignment with sweep generators

Folks,

Any IF strip with overcoupled transformers to flatten the top of the curve is best aligned with a sweeper and an oscillator. Modern function generators make wonderful sweep generators, and if you have any Tek or equivalent scope you're ready to go.

Do adjust the sweep rate and watch the scope. If the rate is too slow, the AVC will try to compensate. A large (say, 0.5 uF) cap across the ACV line helps. If it's too fast, something else changes. You will find a plateau where modest changes in sweep rate make little difference in response shape, and that's where to go.

If you are as perverse as I am and like wideband AM BC radios, you need a sweeper that gets up to the top of the BC band, because front end tracking will have a dramatic effect on bandpass response. If it's off, you get a big spike at one edge or the other of the passband, making a truly nasty sounding audio HF response peak. One silver mica padder and my Heath AJ11 tracks perfectly; it did not do so as designed, and I have seen other receivers with this design problem as well.

If you want to listen to good AM, add a 75 microsecond rolloff just like FM. The broadcasters do a variety of HF tailoring, but this seems to match pretty well. This of course assumes that you can find program material you want to hear, but San Francisco has an oldies station at 560 KHz and a classical station at 1220.

Regards,

Scott Robinson
spr@earthlink.net

Junque is GOOD for you!

Message-Id: <199904232033.NAA25677@mail-gw2.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Fw: "Needs Alignment"
Date: Fri, 23 Apr 1999 13:36:34 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I don't think Scott will mind me forewarding this to the List because I think he intended to post it also to the list:

> From: Scott Robinson <spr@earthlink.net>
> To: gumbear@pacbell.net
> Subject: Re: "Needs Alignment"
> Date: Friday, April 23, 1999 12:29 PM
>
> About RF signal generators: for receiver alignment purposes, even the
> cheap ones are OK if used with intelligence and attached to a counter. My
> old Heath SG-8, as simple as they come, can be set pretty accurately if
> you
> are careful and patient and will sit still after warm up. I added a BNC
> on
> the front panel upstream of the attenuator to feed the counter.
>
> This brings me to Arden's key point-you GOTTA have a counter. Then you
> gotta calibrate the counter, which is easy. If it has a 10 MHz internal
> time base, put it near a radio and zero beat that to WWV with the
> counter's
> time base tweak. If it doesn't or is very well shielded, feed it an
> oscillator set to 10 MHz and zero-beat to WWV, and then adjust the
> counter's time base to read 10 Megahertz on the money.
>
> If you are on a limited, budget, spend your money on a counter rather
> than
> a better generator. New ones with minimal features cost about \$250 and
> used ones are less. The Beckman Circuitmate that I have cost me \$400 new
> about 10 years ago, and I recently added a General Radio 1192, with Nixie
> tubes yet! So here you are: tube technology (Nixies) but modern accuracy.
> What could be wrong!?
>

> That said, I do now have two better RF generators-an Advance (British)
unit
> and ad General Radio 830 bridge oscillator. The GeRad lacks a useful
> output attenuator but its big brother that has one weighs too much for my
> creaky back so I haven't gone looking for one yet. I mostly use the
> Advance since my bench is small and it is, too.
>
> An a related subject, many cheap radios, particularly sandy ones, will
> whistle if tuned to exacly twice the IF. For a while, I listened to a
> great country music statio at 910 KHz and took to aligning such radios'
IFs
> to 458 KHz instead fo 455. WWithout a counter, you would have trouble
doing
> this trick accurately. I nolonger much care as the station shifted format
> to something boring. Back to the BBC or NPR for this kid...or geezer.
>
> One non-cheap and otherwise very good radio which is an example of this
> problem is the Zenith 1000 Trans-Oceanic.
>
> Regards,
>
>
>
> Scott Robinson
> spr@earthlink.net
>
> Junque is GOOD for you!
>

Date: Fri, 23 Apr 1999 16:42:18 -0400
From: don merz <71333.144@compuserve.com>
Subject: Tek 585A Problems
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199904231645_MC2-7329-B004@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Hi. I am struggling to understand some Tek 'scope oddities and I need your help.
I recently picked up a batch of older Tek gear including 2 585A scopes, an 82
plug-in, 2 81 adapters and several letter-series plug-ins. Most of this stuff
works, after a fashion...

Oddity #1: Both 585A 'scopes cut off the trace at the top and bottom of
the screen. Once the trace gets larger than about 2" high, it starts to be cut
off. I don't think this is normal behavior. But they both do
it exactly the same way.

Oddity #2: The one 585A works great with the 82 plug-in, no problem. But when I try to use either 81 adapter with any of the letter series plug-ins, it will only show a trace on the .5v/cm vertical setting and then it will only show a partial trace. Changing 81 adapters makes no difference and changing letter series plug-ins makes none either. But if i switch back to the 82 plug-in without the adapter, everything works fine. What am I missing here?

Any help appreciated.
73, Don

Date: Fri, 23 Apr 1999 16:56:15 -0400
Message-Id: <199904232056.QAA27149@brill.shiva.com>
From: John Shriver <jas@shiva.com>
To: Old Tube Radios <boatanchors@theporch.com>
CC: boatanchors@theporch.com
Subject: Re: Tek 585A Problems

Your 585A's must be missing the plastic graticules, or have the wrong ones. They only have 4cm of vertical deflection range, which is all that is scribed on the graticules. The accelerating voltage is very high, and the distributed deflection plates go a very long way down the neck of the tube. When you go more than 2cm up or down from the center line, I think the beam slams into the deflection plate, and never reaches the screen.

If you want more vertical range, the 545 family is the way to go, with various models having 6cm or 8cm or vertical range.

Date: Fri, 23 Apr 1999 14:01:52 -0700 (PDT)
From: John Kolb <jlkolb@cts.com>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Tek 585A Problems
Message-ID: <Pine.SC0.4.05.9904231358180.25684-1000000@sd.cts.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 23 Apr 1999, don merz wrote:

> Hi. I am struggling to understand some Tek 'scope oddities and I need your help.

> Oddity #1: Both 585A 'scopes cut off the trace at the top and bottom of
> the screen. Once the trace gets larger than about 2" high, it starts to be cut
> off. I don't think this is normal behavior. But they both do
> it exactly the same way.

>

Been near 30 years since I've seen a 585, but as I recall, the screen overlay only had 6 vertical divisions, rather than the usual 8 or 10 on other scopes. If the trace is blanked when outside of the area covered by the screen gradicule, I would think it's normal operation.

John KK6IL

Message-ID: <00b101be8dd9\$809942e0\$a6eee6ce@default>
From: "Wayne & Deb Harrah" <harrah@ia.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: WTD Drake DC supply for Vintage Mobile
Date: Fri, 23 Apr 1999 17:34:25 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

oh, sure! Now I've caused a mad RUSH to buy up all those DC supplies!
That'll teach me to get everyone waxing nostalgic!

GREAT!

:-(

Buzz, ke0ms

(just kidding)

> The Vintage Mobile thread started up just a few days after
> I received a Drake TR-4C. My '90 Merc Marquis desperately
> needs a large radio to fill the cavernous void when travelling solo.
>
> Does anyone have a DC-4 power supply for sale?

Message-Id: <3.0.5.32.19990423185128.00889360@mail.som-uky.campuscw.net>
Date: Fri, 23 Apr 1999 18:51:28 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: "anthony w. deprato" <tdeprato@som-uky.campuscw.net>
Subject: manuel list at library
Cc: boatanchors@theporch.com
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have been listing and coping what I have received for the Library and

here is the list as of today. I have not had time to go thru all of mine yet so more will be added. if you have a manuel that is not on the list please consider making a couple of copies and giving to the library..

thanks tony wa4jqs

the following were given by Tom KE0KB

SP-44 OP MAN

SP-44 SER BUL

SX-42 OP MAN

SX-42 SER BUL

SR-150 OP MAN

SR-160 OP MAN

SX-99/99U OP MAN

THANKS TOM!

the following were given by Jim WB8DML

HT-41 OP MAN

SX-110 OP MAN

S-38C run 2 OP MAN

HT-37 SER BUL PTT MOD.

THANKS JIM !

the following were given by Duane forgot your new W8 CALL SORRY

TW-2000 OP MAN

SX-110 OP MAN

THANKS DUANE !

the following were given by VE4WI

HT-37 OP MAN

SX-101A OP MAN

THANKS !

S-120A OP MAN GIVEN BY VE3CL

SX-32 OP MAN GIVEN BY W4RCL BOB

S-120 OP MAN GIVEN BY SONNY BACA

SR-2000 OP MAN GIVEN BY SANDY AC1Y

THANKS GUYS WE ARE ON OUR WAY....

I HAVE GIVEN THE FOLLOWING FROM MY COLLECTION SO FAR

SR-400 OP MAN

SX-117 OP MAN

SX-100 MK 2 OP MAN

S-81 run 1 OP MAN

S-47 SAMS

SR-46 OP MAN

SR-46A OP MAN

S-36A OP MAN

S-27 OP MAN

S-85 OP MAN
S-39 OP MAN
S-40A SER BUL
S-80 SAMS
HA-4 OP MAN
PS-150-12 OP MAN

PLEASE if you have one that is not listed send me a copy of two..

the library address is
HALLICRAFTERS COLLECTORS ASSOC.
P.O. BOX 146
FERGUSON KENTUCKY 42533

I will inter the list into excell and get to the webmaster asap.
73 tony wa4jqs / vp8bz1

Message-ID: <37211BCD.56BA@mr.net>
Date: Fri, 23 Apr 1999 18:18:05 -0700
From: "ROBERT F. KEMP" <rkemp@mr.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Wanted: Schematic/manual for CE Model DQ Q-Mult.
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If anyone would happen to have info on this, would sure appreciate it.
Picked one up a while back.....no info with it (of course).

Bob.

Message-Id: <199904232359.TAA01422@ns.atl.org>
From: "Bob Duckworth" <wb4mnf@atl.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: need two small parts, anyone going to greenville?
Date: Fri, 23 Apr 1999 08:11:24 +0100

need hq170 ist if tranny hq179 bandswitch knob
marty, reed, and I will be making trek to greenville
hfest on 8th from atlanta snd can meet there...
-bob

Date: Fri, 23 Apr 1999 20:28:25 -0400
From: Robert Lawson <lawson_r@popmail.firn.edu>

Subject: Microphone Impedance Transformer
To: Old Tube Radios <boatanchors@theporch.com>
Cc: baswaplist@foothill.net
Message-id: <37211029.66E3@popmail.firn.edu>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Fellow BA'ers,

I have an Electro Voice Mercury 911 microphone minus the 'low to high' impedance tranformer that was mounted in the rear of the mic housing. The low impedance mic element is good. Any advice on where to obtain a replacement impedance transformer? I'd rather not put a drag-along in-line cord Radio Shack unit unless it is absolutely necessary.

Thanks in advance.

Regards,

Robert WPE4FGR W4RL Pensacola Florida

Message-ID: <01d801be8df3\$6f710600\$e12fcfd1@default>
From: "Robert Nickels" <ranickel@mwci.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: SB-35, cont'd
Date: Fri, 23 Apr 1999 20:35:31 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All,

My query on the SB-35 drew a number of comments, but the closest anyone's come to seeing one is a for sale ad which was spotted some time ago -- "make offer". Consensus is that with the possible exception of a few pre-production models, this rig never was produced.

For the curious, I've scanned the WRL 1971 catalog page onto my webpage:

<http://users.mwci.net/~ranickel/SB35.JPG>

It's a big file but may be as close as any of us will ever get to this rig! On the same page is the ad for the WRL Duo-Power 300 combo AC/DC power supply that triggered this chain of events...

73, Bob W9RAN

Message-Id: <199904240253.WAA00881@netbox.acd-pc.com>
Date: Fri, 23 Apr 1999 23:05:03 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Glenn Finerman <k2kl@acd-pc.com>
Subject: RE: Needs alignment
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

That's an easy one Arden...

<snip>
>Why would someone not want to bother with restoring normal performance in
>order to get more money? When was the last time you nearly died of
>suffocation by too many BA's in the "collection"?
<snip>

Some folks (like myself) are very busy with other things besides Boatanchor restoration. Free time is at a minimum. Any available time I want to spend working on the "keepers" in my collection not on the ones I'm selling. I would rather sell my extras cheaper and let the buyer do the restoration work than do it myself to get more money. Besides that, I'm sure many of us enjoy the restoration process and may not want a radio that's "plug-n-play"

What I have a real problem with is sellers who use the "needs alignment" as a cover for other problems they know darn well exist. I always go to great lengths to describe the items I'm selling. I'll always make time to at least plug it in, but I very rarely have the time to start fiddling with sensitivity measurements, etc and I'll price the items accordingly. So far this year, I've been burned a few times by sellers that conveniently forgot to mention problems or cosmetics that were more than obvious.

Yes, buyer beware!!

73.....Glenn Finerman K2KL k2kl@acd-pc.com

----- W A N T E D -----
Plug-in coils for Gonset Commander.
Drake RR-1 rcvr, Browning SSB-15 xmtr, MK-1 xmtr

Yaesu FRDX-400 rcvr, Yaesu FL-101 xmtr
Icom filter FL-44A

.

Date: Fri, 23 Apr 1999 22:02:55 -0500 (CDT)
From: Bill Hawkins <bill@iaxs.net>
Message-Id: <199904240302.WAA05797@citrus.iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Tek 585A Problems

Don,

Stan Griffiths' book shows a half-height graticule on 585 scopes. I suppose that's how you squeeze 85 MHz out of tubes.

The 81 and 81A appear to have active devices (tubes) in the back. Stan says the 81 is limited to 33 MHz, the 81A to 50 MHz. The 82 is rated at 80 MHz. The later version of the 82 uses lever switches for AC DC input selection.

Anyone heard from Stan?

Regards,
Bill Hawkins

From: Henry van Cleef <vancleef@netcom.com>
Message-Id: <199904240321.UAA17892@netcom19.netcom.com>
Subject: Re: Tek 585A Problems
To: Old Tube Radios <boatanchors@theporch.com>
Date: Fri, 23 Apr 1999 21:21:24 -0600 (MDT)
Cc: boatanchors@theporch.com
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

As don merz discourses

>

> Hi. I am struggling to understand some Tek 'scope oddities and I need your help.
> I recently picked up a batch of older Tek gear including 2 585A scopes, an 82
> plug-in, 2 81 adapters and several letter-series plug-ins. Most of this stuff
> works, after a fashion...
> Oddity #1: Both 585A 'scopes cut off the trace at the top and bottom of
> the screen. Once the trace gets larger than about 2" high, it starts to be cut
> off. I don't think this is normal behavior. But they both do
> it exactly the same way.

Don, the 585 series only had 4 CM total vertical scan, and on many CRT's you'd hardly get that, with some trace compression at the ends of the range. Remember that 585 was genuinely "state of the art" and it's amazing that they work as well as they do for as long as they do.

>
> Oddity #2: The one 585A works great with the 82 plug-in, no problem. But when I
> try to use either 81 adapter with any of the letter series plug-ins, it
> will only show a trace on the .5v/cm vertical setting and then it will only
> show a partial trace. Changing 81 adapters makes no difference and changing
> letter series plug-ins makes none either. But if i switch back to the 82
> plug-in without the adapter, everything works fine. What am I missing here?
>

Not sure I know what's going on here, but an ancient bee is buzzing in my bonnet----check the wiring at the 585A blue-ribbon connector and make sure all the voltages are there. Do the same at the plug-in blue-ribbon connector.

--

=====
Hank van Cleef
=====

Message-Id: <199904240810.DAA27535@loki.internettport.net>
From: "Steve" <scb@loki.internettport.net>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Sat, 24 Apr 1999 02:53:05 +0000
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: HV probe wtd.

Greetings;

Would someone have an HV probe for DMM (w/ 10 meg^ input) to sell?
Need it to set HV on Tek o'scope.

Thanx; Steve

Message-Id: <3.0.5.32.19990424025305.0079cac0@proaxis.com>
Date: Sat, 24 Apr 1999 02:53:05 -0700
To: Old Tube Radios <boatanchors@theporch.com>

From: Hue Miller <kargokult@proaxis.com>
Subject: Nat'l NC-44 novel circuit
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

hello all,
i was perusing the "manual" (4 pages) for the National NC-44
and want to comment on some unusual aspects of the circuit. first,
the mixer is a 6K8. then, the 2 IF tubes -- 6L7 ! strange, 2 mixer
tubes used as IF amps. i don't suppose this proved to be any real
advantage, as i've not seen any other manufacturer do this.
(altho, i note, the Heath HW-12 ssb transceiver uses 6BE6 multigrid
converter tube as the vfo buffer - was this for supposedly better
isolation??)

then, in the NC-44, the detector is a 6K7. there is no cathode resistor,
so it's zero bias; the cathode - G1 form the signal diode, and the
resulting audio on the grid G1 is amplified by the rest of the tube.
the screen grid G2 resistor is 500kR, which seems high; i suppose the
screen voltage had to be lowered to compensate for the low bias, which
otherwise would cause heavy plate current. this double use of the
pentode tube, detector and audio amp, is one commonly seen in german
military equipment. this is the first time i have encountered it in
a US receiver. oh, and btw, the bfo is injected into the suppressor
grid G3 of the same 6K7.
and -- anyone with first hand experience with this receiver, who can
comment on its nonordinary - or ordinary - reception characteristics?
hue ka7lxy

End of BOATANCHORS Digest 2517

>From ???@??? Sun Apr 25 08:43:06 1999
Message-Id: <199904242305.SAA05371@sco.theporch.com>
Date: Sat, 24 Apr 1999 18:05:22 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2518

BOATANCHORS Digest 2518

Topics covered in this issue include:

- 1) 1927 "Soladyne no B+ circuit"
by Hue Miller <kargokult@proaxis.com>

- 2) FMLA: Going to Dayton
by mnhopkins@juno.com
- 3) Dayton Hamvention
by Sandra L Knepper <slkst29+@pitt.edu>
- 4) Repainting engraved panel lettering
by "John Gibson" <gibsonj@mindspring.com>
- 5) RE: Anybody from SFO area going to the Military Meeting?
by MIKHAEL_BROWN@HP-PaloAlto-om24.om.hp.com
- 6) 75A4 SSB AGC PROBLEMS
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 7) LOOKING FOR 10M CONVERTER
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 8) NEEDS ALIGNMENT
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 9) 572B TUBE DETAILED SPECS
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 10) Alfred P. Morgan in 1914: shack layout, etc.
by "Roberta J. Barmore" <rbarmore@indy.net>
- 11) HAMMARLUND HQ-100 & FRANK LESTER
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 12) Baton Rouge Swapmeet
by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
- 13) Frank C. Jones "5 Meter Radiotelephony"
by kf4kl@ipass.net (Doug Hall)
- 14) Re: Alfred P. Morgan in 1914: shack layout, etc.
by John M Iverson <jackiv@juno.com>
- 15) WTB: 2.5V doghouse & speaker for HR0; F.S.HR0 50 to part out
by JPevner@aol.com
- 16) FS: HP 8640 B 323 Option
by Dan Arney <kn6di@groupone.net>
- 17) HR0 60 coils A, C, E
by Heinz und Hannelore Breuer <hbreuer@debitel.net>
- 18) Valiant Forsale
by "Al Fritsche" <fritsche@email.msn.com>

Message-Id: <3.0.5.32.19990424033235.007ef7a0@proaxis.com>

Date: Sat, 24 Apr 1999 03:32:35 -0700

To: Old Tube Radios <boatanchors@theporch.com>

From: Hue Miller <kargokult@proaxis.com>

Subject: 1927 "Soladyne no B+ circuit"

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

hello BA arcana enthusiasts,
say, i was sipping green tea & relaxing with the May 1998
Puget Sound Antique Radio Ass'n "Horn of Plenty", which has
a reprint of an April 1927 Science and Invention article,

"A Practical Solodyne Receiver". (darn! i just noticed the month! however, the article does not read like a joke..... and i think this was before "April" articles became a tradition... i hope!)

anyway, the circuit of a 1-tube regen receiver does not use any B+ battery, just the A (heater) battery. the tube is a tetrode, 2-grid. except that G1 and G2 roles are reversed - G1 goes to A+, so it's at actually, 1/2 the + heater voltage to ground (is that right?) and the signal goes to G2. since it's 1927, i am supposing the tube is a 22 (2 volts) or 26 (3.3 volt)**

quotes:

"the burning out of the tube due to excessively high voltage becomes an impossibility.....due to the elimination of all internal noises, the reception of distant stations becomes relatively greater...

[darn...the elimination of all noises bit reminds me of the month, again...]

"the real success of the Soladyne lies in the use of a new type, four element tube...two concentric grids are contained therein; by carefully adjusting the variable grid leak, maximum amplification can be obtained...

[grid leak is variable resistor grid to ground, value not spec'd]

"the complete receiver, detector and two stages audio....volume is easily equal to that..from ordinary detector and one stage audio, using "B" batteries....

"it must be remembered that this is a great stride in perfection of the reproduction of clear programs and as such, extreme volume is obviously not a prime consideration."

assuming this is not a joke article, this seems to me the first appearance of the "B+ less receiver circuit", seen again in the late 1930s and early 40s as a "B+ less" or "emergency receiver", and which came to be known later (in the postwar years??) as the "space charge circuit".

this circuit intrigues me. maybe enuff to actually build it. and, btw, when these circuits call for a 4:1 audio transformer, they actually wire it in 1:4 right, giving voltage gain to the next grid? is there a convention that the greater-than-one number goes to the left of the ":" ??

your comments please?

tnx, hue miller ka7lxy

**actually, G1 (and plate) voltage would be more like this, with a 4.5 volt A supply, 3 x 1.5 volt batteries, dropping via a rheostat to 3.3 for the #22 bulb: $4.5 - (1/2 \times 3.3) = 2.85$ volts --reckoning

the true cathode point as the midpoint of the heater.

To: Old Tube Radios <boatanchors@theporch.com>
Date: Fri, 23 Apr 1999 23:24:50 -0500
Subject: FMLA: Going to Dayton
Message-ID: <19990424.072001.-15827.0.MNHopkins@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
From: mnhopkins@juno.com

Nothing sounds like a flathead Harley.

I find the asthmatic asycyncrocy of the Knuckleheads, Panheads and Shovelheads inferior to a 8 hp Cushman Eagle, but a 45 cubic inch Harley Davidson vee twin is a treat. I knew what it was before it passed.

This one was a three wheeler that retained much of its original police trim although it's springer fork was a lot longer than stock and the rider, if any sort of officer at all, would be Waffen SS. But the seemingly original Motorola Dispatcher caught my eye so, on a lark, I picked up the Hallicrafters SR-46's mic., turned the selector past the marked crystals and said, "check fifty-eight."

The biker, who had a headset, turned the other way and I saw the lightening bar runes on one side of his coal scuttle helmet were replaced with a representation of a 5-pin SAW filter from a junk TV.

"You're 40 over," I heard him say, "Where are you?"

He must have missed the Squalo antenna, so I said "silver Hundai."

His head jerked around and his initial stare was accusatory but he must have credited my beard because he waved then, probably at my 9-year-old daughter, and said on the radio, "where you headed?"

I told him Dayton and that, two posts or so farther on, Number One was in his Frazer. At that he waved, dropped a gear and sped on toward Memphis to overtake Frank.

This is a big step for Frank, or Number One of the Five Meter Liberation Army that plans to take back 56-60 mc. He had not been to Dayton in decades, thinking it "another coven of commercial equipment worshipers," but several things changed his mind.

A home brew 6M TX from last year's sun-drenched sale so impressed him that he longed to see if any other messages from the past might be posted there. He also has a 20-year old guest who, although being from Pennsylvania and holding an ARRL scholarship, has never seen the Hara Auditorium. Boy Scout functions and later the Army always kept him away, and the next four of Preston Anderson's years are promised to Annapolis.

Press is in the lead car, a white Lincoln coupe belonging to Frank's bodyguard Christie. A Clegg 99er minus a few turns of wire just fit both the space and the decor, but she had to remove her bumper sticker for the trip. Press thought, "It Takes a Tank to Raise a Village," was too argumentive.

Next, in the '47 Frazer, the other bodyguard I call the WARmon is riding with Frank in air conditioned comfort. Frank resisted the upgrade for years, but installing a Polycom 6&2 brought so much heat he had to search the abandoned autos behind his trailer park for parts. The cooling unit from a '54 Cad seemed to fit the trunk and I have to admit the plastic cool air conduits on the package tray look right on the Frazer.

My ham plates, actually my wife's, and the Squalo were recognized by a closing Winnebago and, as our car shivered in the blast, the occupants remembered themselves to us via a Clegg 66er they had set up on 58.00. There was no need to identify themselves as FMLA because everyone else on the road was using a 2M Simplex to exchange greetings.

"Daddy," my daughter said then, "Isn't 58 megacycles too high for Six Meters?"

She wants to take the test at Dayton and is reviewing the allotments. She is the last of my kids and so my last excuse for a father-child trip to the Mecca of merchandise old and new. She laid the study guide on a spare WRL TC-6 "Techceiver" and asked again, "Well? Isn't it Illegal?"

"Yes and no," I answered, echoing the legion of lawyers since Solon. "We once had 56-60 mc and back then ham radio was a rich man's hobby." "But a guy named Jones, back in the 1930s, wrote a

little book called '5 Meter Radiotelephony.'" That little book showed common people how to make real talking radios out of junk and put thousands of young fellows on the air." "It was a city thing and a lot of them did not have licenses." "I have talked to Old Timers who did not even know you needed one, and, in one sense, you didn't."

I paused, to see if she was actually listening and a passing Lexis, with a Hallicrafters SR-34 between he seats, wished us well with our trailer full of junk. My kid really seemed interested in this so I continued.

"The radio rules didn't ever contemplate rigs that were mostly limited to a couple of miles." "Moreover, if the airways were really public property, it was just like walking across a posted stretch of park."

"Anyway, the experience got a lot of guys started in electronics and helped us win the war, that's World War II from 1941 to 1945 for us, so it was a good thing all-in-all." I am careful to recite dates as most modern kids cannot hit the Civil War within 50 years.

She was unconvinced, a common posture.

"But there are always anal retentive types who have to have a bunch of rules to suit their preferences," I continued. "The QRP or low power people did the same thing in 1980 when they went to output power as a standard and knocked out the person without a Wattmeter." "But back in 1938 it was the ARRL that faked a survey and got the government to outlaw the kind of rigs these guys were using." "Right after the war, the government took the band too, but some of the diehards, like Uncle Frank, won't give up."

"Are you a diehard?"

"I fear so," I said, "Although I did not realize it until I met Frank."

"Aren't we a little high up here?" asked a voice I soon connected to a SUV with an ICOM 706 MK II.

"Probably so, but in the long run we'll all be dead," I answered, via the economist John Maynard Keynes.

The equipment operator, with his scanning rig was almost over the hill now but he did ask, "what are you looking for at Dayton?"

I could not adequately answer that in a PhD dissertation so I just told him, "A 25 cent, 60-page booklet from 1935."

He didn't understand, but they never do.

de ab5L, Michael Hopkins, Box 226841, Dallas, TX 75222,
MNHopkins@JUNO.com FMLA XXXIII
Student of Tecraft, ICM, and Six Meters' golden age, 1956-58.
Banned for life from QRP-L for speaking the truth.

Date: Sat, 24 Apr 1999 09:28:32 -0400 (EDT)
From: Sandra L Knepper <slkst29+@pitt.edu>
To: Old Tube Radios <boatanchors@theporch.com>
cc: boatanchors@theporch.com
Subject: Dayton Hamvention
Message-ID: <Pine.GS0.3.96L.990424092717.25274C-100000@unixs4.cis.pitt.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Please don't forget that to attend the Collins Forum on Friday morning at 8 AM in Room 3. Details on the Dayton Hamvention homepage under "Forums."
Thank you.

Dave, W3ST

Message-Id: <199904241616.MAA23995@smtp5.mindspring.com>
Date: Sat, 24 Apr 1999 09:19:47 +0100
Subject: Repainting engraved panel lettering
From: "John Gibson" <gibsonj@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

I have used the following technique with excellent results. After the front panel has been repainted with oil base enamel and baked hard, set the panel horizontal and fill the lettering to the brim with white gloss acrylic (water based) paint. Squee-gee the excess paint to one side and mop up with tissue. Let dry a day or two. The lettering will now be surrounded with a white haze which can easily be lightly rubbed off with a cloth pad damp with a "diluted" cleaner containing ammonia such as Windex or Sudsy Ammonia. Dilute about 4 to 1 with water.

John Gibson.

From: MIKHAEL_BROWN@HP-PaloAlto-om24.om.hp.com
Date: Sat, 24 Apr 1999 09:29:36 -0700
Message-Id: <H00011050e5fde72@MHS>
Subject: RE: Anybody from SFO area going to the Military Meeting?
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Content-Type: multipart/mixed; boundary="openmail-part-13def583-00000001"

--openmail-part-13def583-00000001
Content-Type: text/plain; charset=US-ASCII; name="BDY.TXT"
Content-Disposition: inline; filename="BDY.TXT"
Content-Transfer-Encoding: 7bit

Hi Heinz,

I will be going and will be glad to pick it up for you.

Mike N6WIG
San Jose, Ca

--openmail-part-13def583-00000001
Date: Sat, 24 Apr 1999 09:29:33 -0700
Content-Type: message/rfc822

Subject: Anybody from SFO area going to the Military Meeting?
MIME-Version: 1.0
From: Non-HP-boatanchors/HP-SantaClara_mimegw1////////RFC-822/
boatanchors#a#theporch#f#com@boi166
TO: boatanchors@theporch.com
CC: hbreuer@debitel.net
Content-Type: multipart/Mixed; boundary="openmail-part-13def583-00000002"

--openmail-part-13def583-00000002
Content-Type: text/plain; charset=US-ASCII; name="BDY.TXT"
Content-Disposition: inline; filename="BDY.TXT"
Content-Transfer-Encoding: 7bit

Hi,

is anybody from the SFO bay area going to the military
meeting in San Louis Obispo next week and has some room
left in his car to bring back a Collins 32RA transmitter?

I bought it from Larry, W00GH in Arizona late last year and couldn't pick it up so far. Larry is heading to the meeting and offered to take it along.

I will of course cover any expenses and a share of the gas bill too.

73 from Germany

Heinz - KF6FNC

--openmail-part-13def583-00000002--

--openmail-part-13def583-00000001--

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

Date: Sat, 24 Apr 1999 15:24:26 -0400 (EDT)

Subject: 75A4 SSB AGC PROBLEMS

To: Old Tube Radios <boatanchors@theporch.com>

From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)

Message-ID: <9904241524.aa20771@pcusa01.ecunet.org>

To: boatanchors@theporch.com

I've heard of many factory & user mods to cure 75A4 agc problems on SSB. Obviously there is a problem with stock units (I haven't owned one, so this is heresay).

-John Sehring (Sat, Apr 24, 1999 Custer SD USA) UCC WB0EQ

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

Date: Sat, 24 Apr 1999 15:24:27 -0400 (EDT)

Subject: LOOKING FOR 10M CONVERTER

To: Old Tube Radios <boatanchors@theporch.com>

From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)

Message-ID: <9904241524.aa20786@pcusa01.ecunet.org>

To: boatanchors@theporch.com

Still on the lookout for a 10m converter with a 7-11 MHz output.

Condition not very important.

-John Sehring (Sat, Apr 24, 1999 Custer SD USA) UCC WB0EQ

MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
Date: Sat, 24 Apr 1999 15:24:26 -0400 (EDT)
Subject: NEEDS ALIGNMENT
To: Old Tube Radios <boatanchors@theporch.com>
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
Message-ID: <9904241524.aa20761@pcusa01.ecunet.org>

To: boatanchors@theporch.com

Roger's comments notwithstanding (nice lawyer term, eh?), alignment **is** very important.

If the alignment is way off, which is typical at the hands of a screwdriver twirler, it won't play at all. That's got to be corrected before anything else as you won't be able to do completely troubleshoot it.

-John Sehring (Sat, Apr 24, 1999 Custer SD USA) UCC WB0EQ

MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
Date: Sat, 24 Apr 1999 15:24:27 -0400 (EDT)
Subject: 572B TUBE DETAILED SPECS
To: Old Tube Radios <boatanchors@theporch.com>
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
Message-ID: <9904241524.aa20782@pcusa01.ecunet.org>

To: boatanchors@theporch.com

Awhile back there was a thread on linear amp tube use, specifically HV vs. distortion vs. efficiency.

Does anybody have a source of such detailed info for 572B tubes? Thanks.

-John Sehring (Sat, Apr 24, 1999 Custer SD USA) UCC WB0EQ

Date: Sat, 24 Apr 1999 14:40:18 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Alfred P. Morgan in 1914: shack layout, etc.
Message-ID: <Pine.SUN.3.96.990424141429.16282C-100000@indy1>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

Been reading a couple of new books here--new to me, that is. One of 'em's Frank C. Jones "5 Meter Radiotelephony," about which, if things work out, you will be hearing more later.

But the other is our old pal. Alfred P. Morgan ("Boy Electrician," "Boy's First Book of Radio," etc.) and an okay guy even if he didn't think girls might wanna play radio, too! <grin> (He was PC enough to usually mention us gals in his introductions, btw). (He was "Editor, Mechanical and Electrical Department, 'Boys' Magazine," and I'm thus inclined to forgive any bias in the titles he picked--magazine tie-in, y'know).

However.... I knew he was around a good long while; I did **not** know that he'd writ "Wireless Telegraph Construction For Amateurs." What I have is the **third** edition--1914!

Loads of constructional info for every oddball pre-tube detector you ever heard of; tons of information on induction coils, spark gaps, inductances, etc. and a homebrew hotwire RF ammeter! **Wonderful** stuff! (You will need about 4" of platinum wire for the ammeter, alas).

Quotes often from the U. S. Navy (who spec'd the resistance of individual earphones at 1,000 to 1,100 Ohms, btw--that'd be 2K for two and now you know who gave us **that** standard).

The good Mr. Morgan the the USN give us the following guide that still applies to a BA hamshack--at least a "starter" one:

"The operating room should be well lighted and free from vibration. The room should have a well insulated entrance for the aerial and should be fitted with an operating table about two and one-half-feet wide, not less than seven feet long and of a convenient height for working the sending key. The table should be of dry, well-seasoned wood and the instruments should be mounted on the table at safe sparking distances from each other.

"The connections should all be as direct as possible and well insulated. High potential leads should be kept away from low potential leads and where they cross it should be at nearly right angles.

"Sending key contacts must be kept clean and flat with surfaces parallel to each other.

"All sliding contacts, especially in the receiving tuning coils, should be kept clean and bright and free from foreign matter. A sending set working at low power with all connections good, closed and open circuits in resonance, no sparking from edge of condenser, jar or plates, no glow from aerial and no sparking to rigging, is utilizing its power much more efficiently than the same set pushed to the limit with high resistance connections, sparking at all points and out of resonance."

...Okay, some of the assumed components are rather more than dated, but it's still good dope; the physics hasn't changed since 1914 and neither

have the basics to getting this stuff to working it right and keeping it that way!

(The book is in *amazingly* good shape, very clear printing and on what must have been acid-free paper).

73,
--Bobbi

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore
FISTS #3388 * G-QRP #10001 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
Date: Sat, 24 Apr 1999 15:49:50 -0400 (EDT)
Subject: HAMMARLUND HQ-100 & FRANK LESTER
To: Old Tube Radios <boatanchors@theporch.com>
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
Message-ID: <9904241549.aa06118@pcusa01.ecunet.org>

Dave, did you ask Frank about the HX-50, the infamous Drifty Fifty?
I think this equipment almost sunk Hammarlund.

I have no schematics for the HQ-100 nor the HQ-170/180 but kind of doubt that the -100 was a proving ground for the more expensive models.

Single-conversion-not-even-a-BFO radios wouldn't seem to have much in common with a triple conversion radio having bandpass tuning & product detector.

I doubt the -100 or -110 had enough stability for serious use with an HC-10 SSB converter (sharp IF & product detector). Also the price of the HC-10 (I'm guessing here) was probably of the same order as the above rx's.

His reference to the National NC-300 & -303 performance with VHF converters seems way off. These rx's had a special "converter" band at 30-34 MHz (like Halli SX-101A). You could use any converter having that output with them, not just National's converters.

Now, I wasn't there & I could be wrong, but...

I've never been too impressed with Hammarlund stuff except maybe the Super Pro series but that was MIL stuff.

BTW, W2AMJ was very active on VHF in 40s & shows up a lot in Ed Tilton's

columns' lists.

-John Sehring (Sat, Apr 24, 1999 Custer SD USA) UCC WB0EQ

Date: Sat, 24 Apr 1999 18:19:37 -0400
From: "ROBERT W. DOWNS" <RWDDowns_WA5CAB@compuserve.com>
Subject: Baton Rouge Swapmeet
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199904241819_MC2-734B-CD96@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Group,

I have to go to Ruston next weekend for a wedding and may have some valuable equipment (i.e., junk) that needs to be picked up next Saturday = in Baton Rouge. Any of the Houston bunch going over who wouldn't mind hauling something back?

73,
Robert Downs
WA5CAB
Houston

From: kf4kl@ipass.net (Doug Hall)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Frank C. Jones "5 Meter Radiotelephony"
Date: Sat, 24 Apr 1999 22:07:20 GMT
Message-ID: <3723393b.114931819@DOUGHALL>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

Dear BA folk,

I've heard about this little book, but have never seen one. Seems to me it would be a nice thing to scan and convert to Adobe Acrobat format so that the masses could read it. If you have one you'd sell (or loan) I'll scan it and put the resulting PDF file on a web page so everyone can enjoy it.

73,
Doug, KF4KL

To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Date: Sat, 24 Apr 1999 16:40:40 -0500
Subject: Re: Alfred P. Morgan in 1914: shack layout, etc.
Message-ID: <19990424.164110.15950.1.jackiv@juno.com>
From: John M Iverson <jackiv@juno.com>

Roberta, what do they say about keeping the transmission line bullets clean?

old jack

Jack Iverson K0EWU jackiv@juno.com
ARRL, IEEE LM, RCA, AMI, ARCI, QCWA, CCA

On Sat, 24 Apr 1999 14:40:18 -0500 (EST) "Roberta J. Barmore" <rbarmore@indy.net> writes:

>
>Hi!
>
> Been reading a couple of new books here--new to me, that is. One
>of
>'em's Frank C. Jones "5 Meter Radiotelephony," about which, if things
>work
>out, you will be hearing more later.
>
> But the other is our old pal. Alfred P. Morgan ("Boy Electricin,"
>"Boy's First Book of Radio," etc.) and an okay guy even if he didn't
>thik
>girls might wanna play radio, too! <grin> (He was PC enough to
>usually mention us gals in his introductions, btw). (He was "Editor,
>Mechanical and Electrical Department, 'Boys' Magazine," and I'm thus
>inclined to forgive any bias in the titles he picked--magazine tie-in,
>y'know).
> However.... I knew he was around a good long while; I did *not*
>know
>that he'd writ "Wireless Telegraph Construction For Amateurs." What I
>have is the *third* edition--1914!
> Loads of constructional info for every oddball pre-tube detector
>you
>ever heard of; tons of information on induction coils, spark gaps,
>inductances, etc. and a homebrew hotwire RF ammeter! *Wonderful*
>stuff!
>(You will need about 4" of platinum wire for the ammeter, alas).
> Quotes often from the U. S. Navy (who spec'd the resistance of
>individual earphones at 1,000 to 1,100 Ohms, btw--that'd be 2K for two
>and
>now you know who gave us *that* standard).
> The good Mr. Morgan the the USN give us the following guide that
>still

>applies to a BA hamshack--at least a "starter" one:
> "The operating room should be well lighted and free from vibration.
>The room should have a well insulated entrance for the aerial and
>should
>be fitted with an operating table about two and one-half-feet wide,
>not
>less than seven feet long and of a convenient height for working the
>sending key. The table should be of dry, well-seasoned wood and the
>instruments should be mounted on the table at safe sparking distances
>from
>each other.
> "The connections should all be as direct as possible and well
>insulated. High potential leads should be kept away from low
>potential
>leads and where they cross it should be at nearly right angles.
> "Sending key contacts must be kept clean and flat with surfaces
>parallel to each other.
> "All sliding contacts, especially in the receiving tuning coils,
>should
>be kept clean and bright and free from foreign matter. A sending set
>working at low power with all connections good, closed and open
>circuits
>in resonance, no sparking from edge of condenser, jar or plates, no
>glow
>from aerial and no sparking to rigging, is utilizing its power much
>more
>efficiently than the same set pushed to the limit with high resistance
>connections, sparking at all points and out of resonance."
> ...Okay, some of the assumed components are rather more than dated,
>but
>it's still good dope; the physics hasn't changed since 1914 and
>neither
>have the basics to getting this stuff to working it right and keeping
>it
>that way!
>
> (The book is in *amazingly* good shape, very clear printing and on
>what
>must have been acid-free paper).
>
> 73,
> --Bobbi
>
>KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore
> FISTS #3388 * G-QRP #10001 * ARRL * RSGB * WIA
> Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys
>
>

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From: JPevner@aol.com
Message-ID: <f155c4c.2453a28f@aol.com>
Date: Sat, 24 Apr 1999 18:41:19 EDT
Subject: WTB: 2.5V doghouse & speaker for HRO; F.S.HRO 50 to part out
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Folks;

Have just gotten a 1938 HRO which has some hacks, but I am starting to
accumulate
the parts to undo them. The rig was sharp looking, but didn't come with
supply or
speaker. So if you can help... Cash or trade.

Have carcass of HRO-50 to part out. No it cannot possibly be fixed! No case,
but
most internal parts.

also some coils& coil parts for 50 and some for older HROs

regards,
de N1LIS

Message-ID: <372248DD.E70B8895@groupone.net>
Date: Sat, 24 Apr 1999 15:42:37 -0700
From: Dan Arney <kn6di@groupone.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS: HP 8640 B 323 Option
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

HP 8649B 323 option signal generator in clean yellow military transit
case. This is a operating unit and very stable. Professionally packed,
\$400.00 certified funds, cash or personal check to clear. Plus UPS,
ships as 70 to 71 pounds packed. Shipped as 70 pounds minimum to get
slight amount of spwcial handling by UPS.

A very good complete bound copy of the manual for this unit is available from Ed Matsuda San Diego,CA. ematsuda@earthlink.net for 450.00 postpaid.

Thanks,
Hank

Message-ID: <37224C9D.5E44@debitel.net>
Date: Sun, 25 Apr 1999 00:58:47 +0200
From: Heinz und Hannelore Breuer <hbreuer@debitel.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: HRO 60 coils A, C, E
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi,

I was able to acquire three HRO coils at a swapmeet today. They are still sealed in what looks like a military packing.

They are HRO-60 coil A, C, E

Can I use them for my HRO 50? Probably not :-(

Anyone wants to trade for HRO-50 coils? I have A, B, D, F and need any others.

73

Heinz - KF6FNC

Message-ID: <002201be8ea6\$698e4780\$47f5fed0@noname>
From: "Al Fritsche" <fritsche@email.msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Valiant Forsale
Date: Sat, 24 Apr 1999 18:00:57 -0500

Hi Troops, Have finally decided to sale my Valiant and 275 Matchbox... Just don't have the

time to mess with them anymore... Would like 300 for the Valiant and 75 for the the tuner.

Would like to sell both at the same time...

I am the second owner of the Valiant and it is factory wired. The chassis is so clean that you can eat off of it.. Front panel a nine and all original knobs and white knob inserts all there.

No mods have been done to this guy and it still has all original caps and

866 rectifier tubes..

Replaced the 3 6146's in the final with a matched (emission only) set...
Gets about 130 watts
out on 80 meters.. Gets weaker up the bands..(I neutralized by the
manual)..Possible problem or
lack of tuning knowledge on my part.

Missing 1 back screw that holds the case to the chassis, Includes the
original manual for both...
BTW K5HUT was the original owner and I had supper with him last nite. He
bought the rig in the
late fifties and did use it when on a work project in Lybia as 5A4CW

All and All a good rig with excellant appearance.....

You can't go wrong for the price.....

Matchbox is just plain jane, no directional coupler....

JPEGS of the rigS are available on request..

WILL NOT SHIP, PICKUP ONLY IN HOUSTON, TEXAS

73
aL
KD5CML
713-937-6044
fritsche@msn.com

End of BOATANCHORS Digest 2518
